

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US 02/21993

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04J11/00 H04L1/06 H0487/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04J H04L H048

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	<p>WO 97 08861 A (TERAYON CORP) 6 March 1997 (1997-03-06) page 53, line 16 -page 54, line 2</p> <p>page 55, line 16 -page 56, line 28; figures 19,28A page 64, line 17 -page 65, line 7 page 70, line 15 -page 73, line 10; figures 21,23,24 page 140, line 4 -page 141, line 29; figures 50,51</p> <p style="text-align: center;">-/-</p>	<p>1,3-8, 18,20-25 2,9-17, 19,26-34</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

I later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

27 October 2003

Date of mailing of the international search report

04/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5816 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 spo nl,
Fax: (+31-70) 340-3016

Authorized officer

Nilsson, M

INTERNATIONAL SEARCH REPORT

Internet Application No
PCT/US 02/21993

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5 781 542 A (SAITO TATSUNORI ET AL) 14 July 1998 (1998-07-14) column 1, line 1 - line 14 column 1, line 45 - column 2, line 14 column 9, line 60 - column 10, line 53; figure 5	1-6, 8, 18-23, 25 7, 9-17, 24, 26-34
Y	THOMPSON J S ET AL: "Downlink transmit diversity schemes for CDMA networks" IEEE PROCEEDINGS: COMMUNICATIONS, INSTITUTION OF ELECTRICAL ENGINEERS, GB, vol. 147, no. 6, 11 December 2000 (2000-12-11), pages 371-380, XP006013998 ISSN: 1350-2425 paragraphs '0002!', '0003!'	2, 9-17, 19, 26-34
A	US 5 729 570 A (MAGILL DAVID T) 17 March 1998 (1998-03-17) column 1, line 66 - column 2, line 35 column 3, line 14 - line 54; claims 1-7; figure 2	1-34

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US 02/21993

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9708861	A	06-03-1997	US 5768269 A	16-06-1998
			US 5793759 A	11-08-1998
			US 6356555 B1	12-03-2002
			AT 216543 T	15-05-2002
			AU 711984 B2	28-10-1999
			AU 6714896 A	19-03-1997
			BR 9610132 A	21-12-1999
			CA 2230294 A1	06-03-1997
			DE 69620781 D1	23-05-2002
			DE 69620781 T2	28-11-2002
			EP 1107597 A2	13-06-2001
			EP 1130918 A2	05-09-2001
			EP 1130919 A2	05-09-2001
			EP 1107598 A2	13-06-2001
			EP 1107599 A2	13-06-2001
			EP 0858695 A1	19-08-1998
			IL 123278 A	10-03-2002
			JP 2002505042 T	12-02-2002
			KR 274300 B1	15-12-2000
			WO 9708861 A1	06-03-1997
			US 6154456 A	28-11-2000
			US 5966376 A	12-10-1999
			US 5745837 A	28-04-1998
			US 2001001616 A1	24-05-2001
			US 2001046266 A1	29-11-2001
			US 2001024474 A1	27-09-2001
			US 2002015423 A1	07-02-2002
			US 5991308 A	23-11-1999
			US 2003156603 A1	21-08-2003
			US 6307868 B1	23-10-2001
			AU 2210597 A	01-10-1997
			WO 9734421 A1	18-09-1997
US 5781542	A	14-07-1998	JP 8163085 A	21-06-1996
			CN 1132426 A ,B	02-10-1996
US 5729570	A	17-03-1998	AU 5849696 A	07-08-1996
			CA 2206866 A1	25-07-1996
			EP 0796529 A2	24-09-1997
			WO 9622638 A2	25-07-1996